

Answer Key

Lesson 1-2



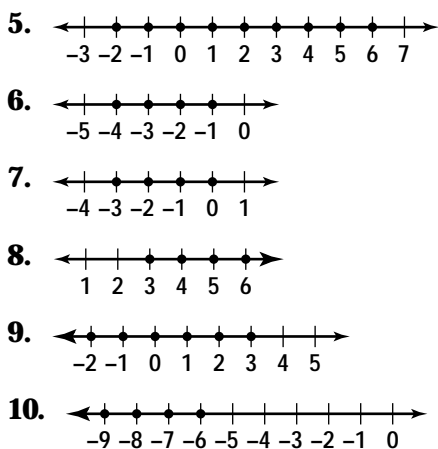
Lesson 1-8

19. $6(g + a) + 3g = 6g + 6a + 3g$
 distributive property
 $= 6g + 3g + 6a$
 commutative property (+)
 $= (6g + 3g) + 6a$
 associative property (+)
 $= (6 + 3)g + 6a$
 distributive property
 $= 9g + 6a$
 substitution (=)

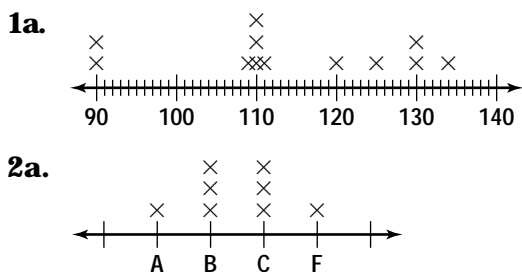
Chapter 1 Review

1. $5 \cdot 1 + 6 \div 2 = 8$ 2. $3 \cdot (8 + 2) = 30$
 3. $9 \div (5 - 8 \div 4)^2 = 1$
 4. $2x + 7x + 6y + 8x = 17x + 6y$
 5. $5(n + 1) + 3(n + 6) = 8n + 23$
 6. $6 + 5 = 5 + 6$; commutative property (+)

Lesson 2-1



Lesson 2-2



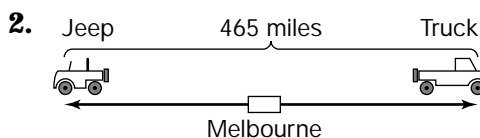
Chapter 2 Review

- 1a. 1°C 1b. 5°C 1c. -7°C 1d. 3°C
 1e. -2°C 1f. 21°C 2. Berlin: 34°F ;
 London: 42°F ; Montreal: 18°F ; Paris: 38°F ;
 Beijing: 28°F ; Sao Paulo: 74°F 3. Sao
 Paulo, Brazil, is in the southern
 hemisphere, and December is summertime
 in the southern hemisphere. 4. Answers
 will vary.

Chapter 3 Review

1. -3 2. 5 3. -12 4. 6 5. 7 6. -30
 7. -7 8. 31 9. -9 10. 4 11. 8
 Solution to puzzle: algebra is fun

Lesson 4-7



Chapter 4 Review

Answers will vary depending on the number of children and adults that students observe. The following are sample answers.

1.

	Location 1	Location 2	Location 3
Children	32	18	24
Adults	48	14	51
Total	80	32	75
Ratio of children to total	$\frac{2}{5}$	$\frac{9}{16}$	$\frac{8}{25}$
Ratio of adults to total	$\frac{3}{5}$	$\frac{7}{16}$	$\frac{17}{25}$

2.

	Location 1	Location 2	Location 3
Number of children out of 50	20	28	16
Number of adults out of 50	30	22	34

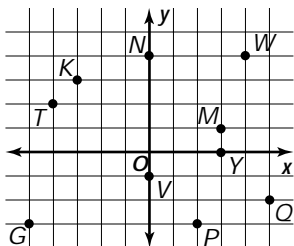
3. In the community, about 40% of the

Answer Key

people are children and 60% are adults.

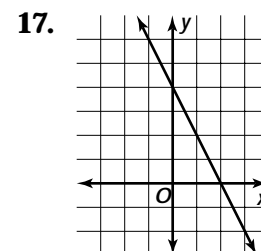
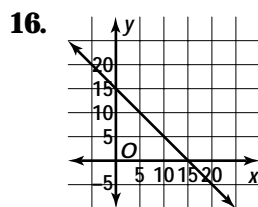
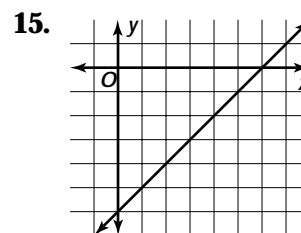
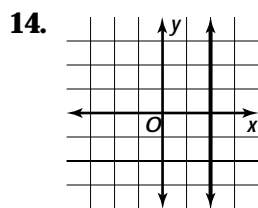
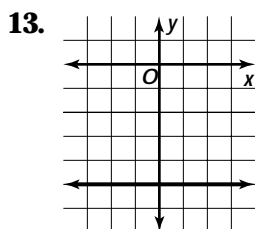
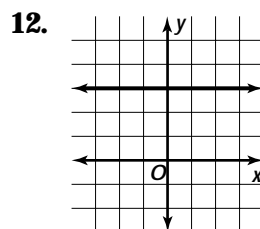
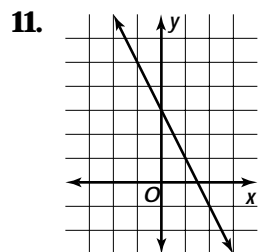
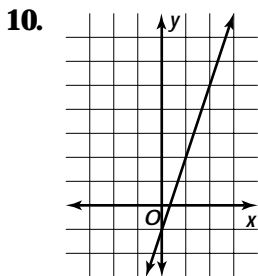
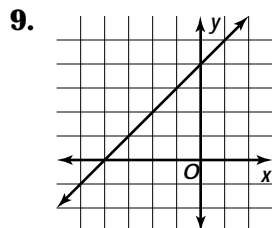
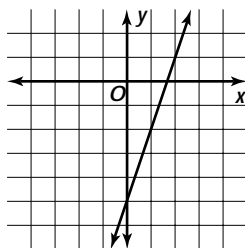
Lesson 5-1

10-19.



Lesson 5-4

2. $y = 3x - 5$



Chapter 5 Review

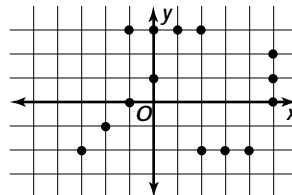
Clue 1: $D = \{0, 5\}$; $R = \{1, 3\}$

Clue 2: $\{(0, 5), (-2, 4), (-2, 3)\}$

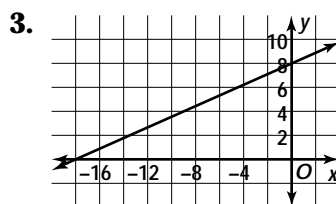
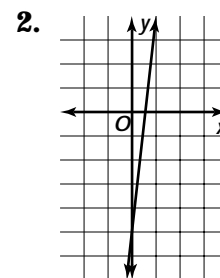
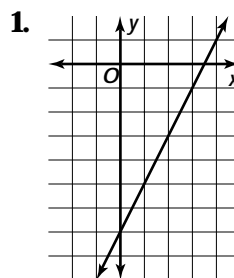
Clue 3: The points are: $(-2, -1)$, $(-1, 0)$, and $(2, 3)$.

Clue 4: no; yes; yes

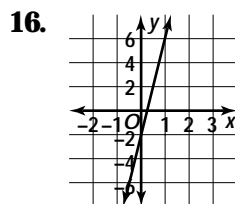
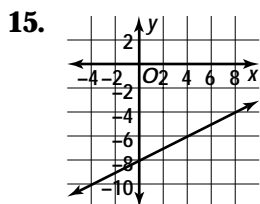
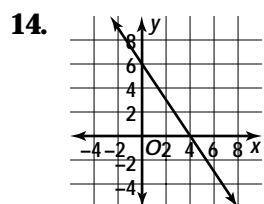
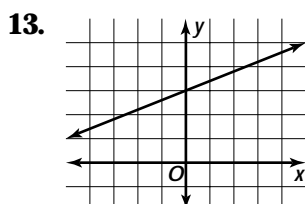
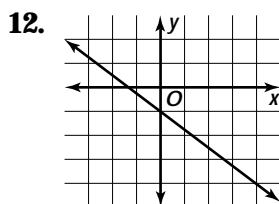
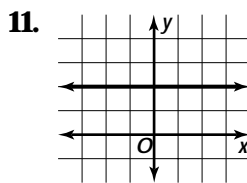
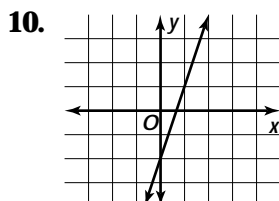
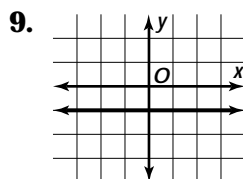
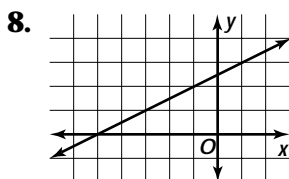
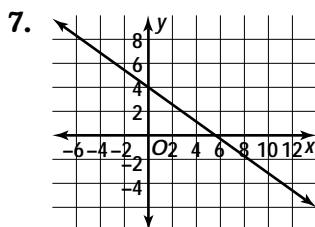
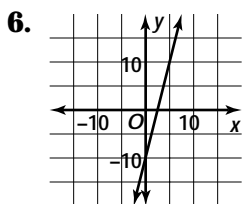
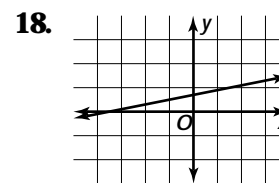
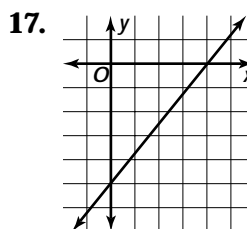
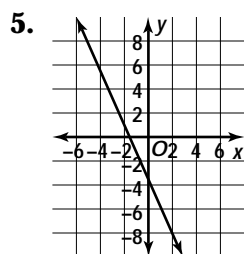
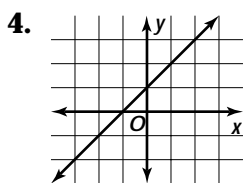
Clue 5: 4



Lesson 6-5



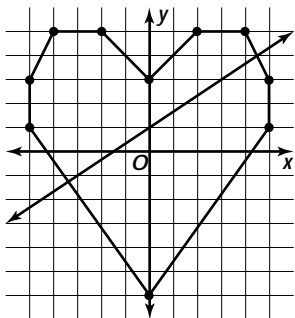
Answer Key



Answer Key

Chapter 6 Review

1. $m = -2$ 2. $m = 0$ 3. undefined slope
 4. $y = 5$ 5. $x = -5$ 6. Sample answer:
 $y - 3 = 2(x + 5)$ 8. $m = -\frac{7}{5}$
 10. $y = -x + 3$



Lesson 7-1

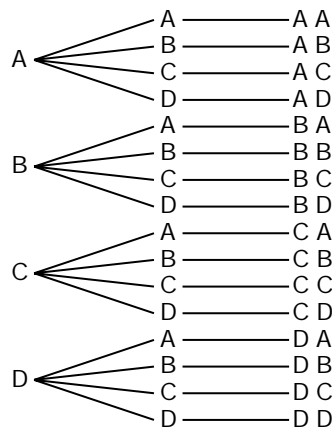
1. 2.
 3. 4.
 5. 6.

Lesson 7-4

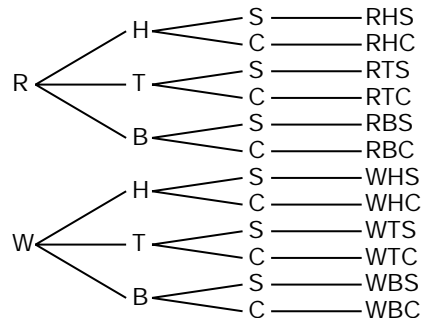
1. 2.
 3. 6.
 7. 8.
 9.

Lesson 7-5

1a. Question 1 Question 2 Outcomes



2a. Bread Meat Cheese Outcomes

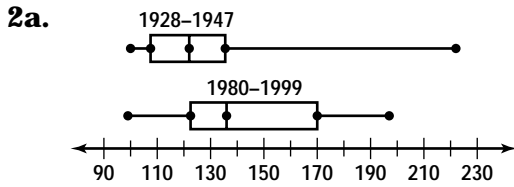
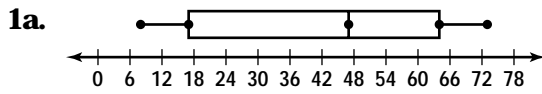


Lesson 7-6

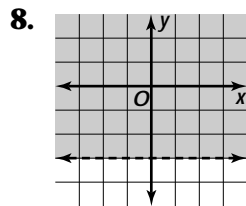
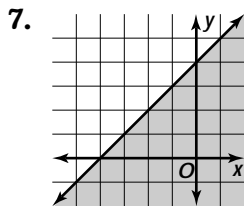
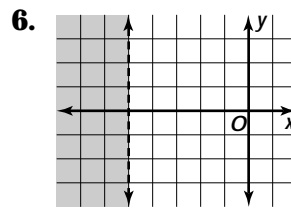
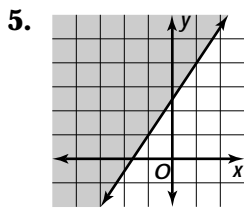
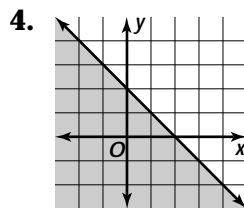
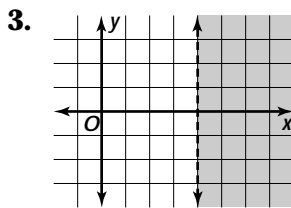
1. 2.
 3. 4.
 5. 6.
 7. 8.

Answer Key

Lesson 7-7



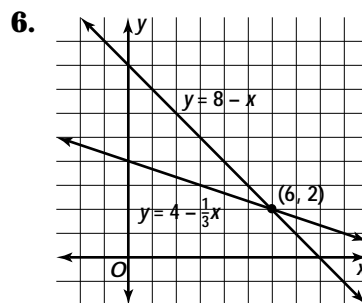
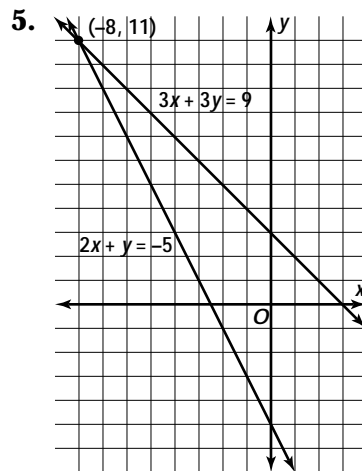
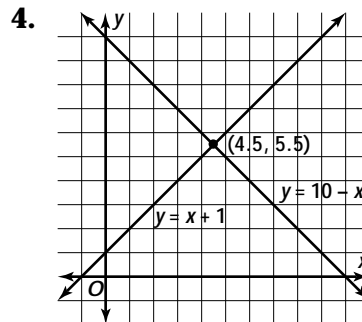
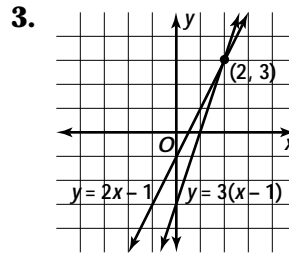
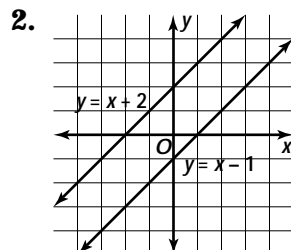
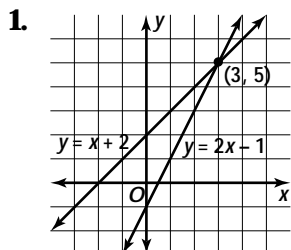
Lesson 7-8



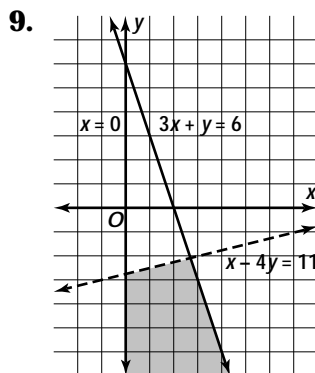
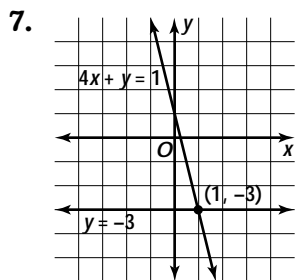
Chapter 7 Review

1. $x \leq 4$ 2. $t > 4$ 3. $n < 4$ 7. $w < 5$ and $w > -3$ 9. $p \geq 5$ or $p \leq -3$
 NY YANKEES TICKETS

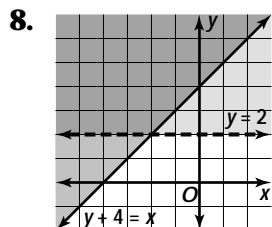
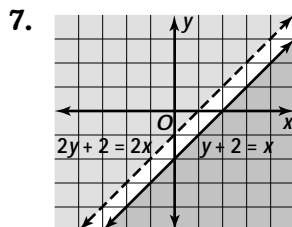
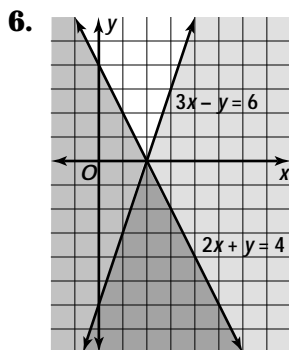
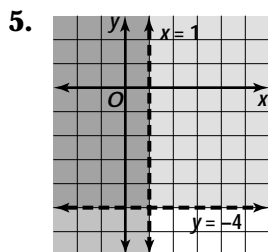
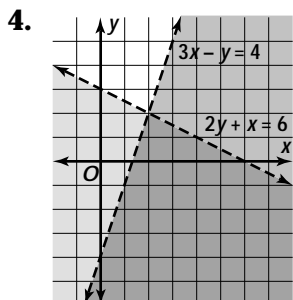
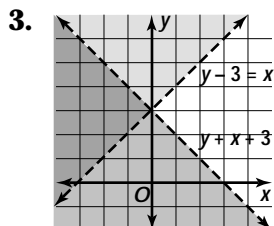
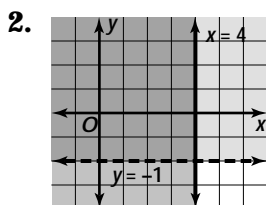
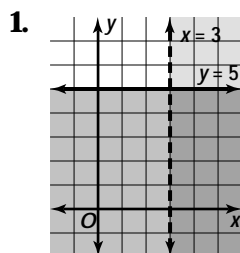
Lesson 8-1



Answer Key



Lesson 8-5



Chapter 8 Review

Gold: $(-2, 4)$; Silver: $(4, -3)$; Diamonds: no solution; Jewels: $(-1, 0)$; The gold is nearest to the starting point, $(0, 5)$.

Chapter 9 Review

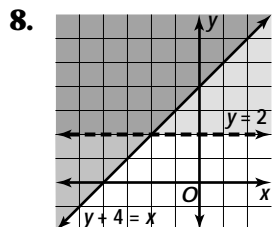
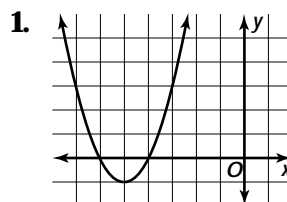
1. $18x^7$ 2. $2x$ 3. $2x^3 - 6x^2 - 2x$
 4. $2x^3 + 2x$ 5. $x + 5$ 6. $x^2 + 11x + 30$
 7. 6.5×10^2 8. 2.47×10^6
 2,470,000; \$24,700

Chapter 10 Review

1. $9x(2 - y)$ 2. $2x(2x^2 + 3)$
 3. $(x - 8)(x + 8)$ 4. $(x - 4)(x + 4)$
 5. $2(x - 4)(x + 4)$ 6. $(x + 2)(x + 4)$
 7. $(x - 4)(x - 2)$ 8. $(x - 3)(x + 4)$
 9. $(x - 4)(x + 3)$ 10. $(x + 2)(x + y)$
 11. $(x + 4)(y - x)$ 12. $(x + 4)(x + 2y)$

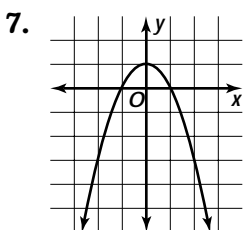
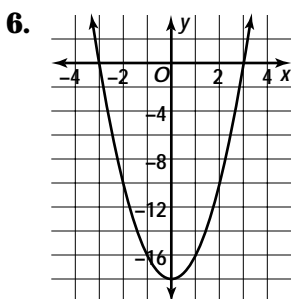
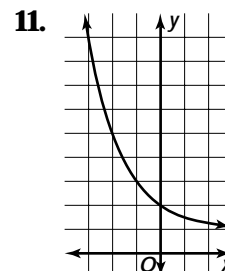
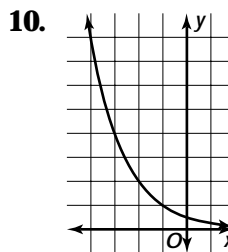
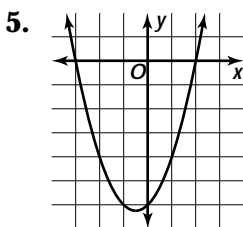
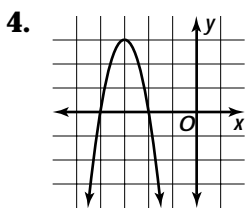
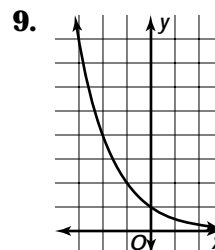
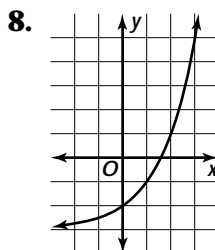
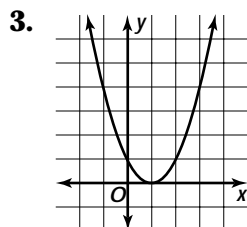
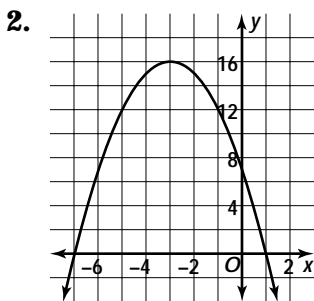
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Lesson 11-1



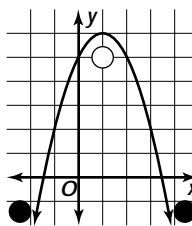


Answer Key

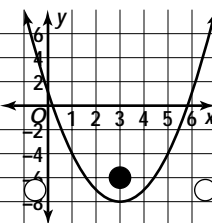


Chapter 11 Review

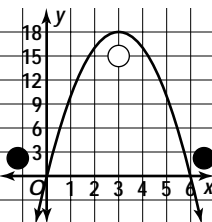
Hole 1: $y = -x^2 + 2x + 5$



Hole 2: $y = x^2 - 6x + 1$



Hole 3: $y = -2x^2 + 12x$



Lesson 11-4

